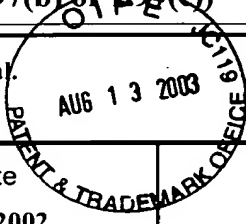


#8  
21-05-04 2171

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
141/02497

In Re Application Of: Aviram SARIEL et al.



Serial No.  
09/926,547

Filing Date  
March 5, 2002

Examiner  
Unknown

Group Art Unit  
2171

Title: **IMAGE COMPRESSION**

**RECEIVED**

AUG 14 2003

Address to:  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Technology Center 2100

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

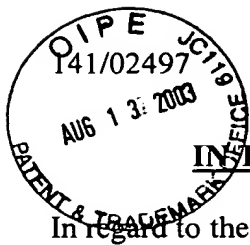
**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

**OR**

☐ the fee set forth in 37 CFR 1.17(p).



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In regard to the application of: Aviram SARIEL et al.

Serial No : 09/926,547

Group Art Unit: 2171

Filed : March 5, 2002

Examiner: Unknown

For : Image Compression

**FIRST SUPPLEMENTARY INFORMATION DISCLOSURE STATEMENT**

Hon. Commissioner of Patents and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

AUG 14 2003

Technology Center 2100

Sir:

Applicants respectfully direct the attention of the Examiner to additional art cited with respect to the present application.

The Examiner is respectfully requested to review and consider this art, in accordance with MPEP 2001.06, MPEP 1893.03(e) and MPEP 1893.03(g) and to indicate in the first office action that he has considered this art. Additionally, the Examiner is respectfully requested to cite those prior art publications mentioned in this application which the Examiner considers to be material or relevant to the present claims.

Further, in order to comply with discretionary regulations 37 C.F.R. §1.97 and §1.98, attached is an Equivalent to Form PTO-1449 listing the cited art. Also attached are copies<sup>1</sup> of the art. This art contains information which the Examiner may consider to be important in deciding whether to allow the present application to issue as a patent.

Since item 2, JP 57-10123, is in a foreign language, applicants provide a corresponding U.S. Patent No. 4,354,247. Both items are listed on the attached Equivalent to PTO-1449 form with a connecting arrow between them.

<sup>1</sup> To the extent that a document is listed and no copy of same is attached, then such document is not at the present time available to the undersigned or is available in the national stage file. If a listed document is not in the English language and an English translation is readily available, such translation is also attached; if translation is not attached, it is not readily available to the undersigned. If a foreign language patent document is cited, and an English language equivalent is known to the undersigned, then such an equivalent patent is also cited on the attached form along with the corresponding foreign language patent and a connecting arrow indicated therebetween; if no such English language equivalent is cited then none is known to the undersigned.

In accordance with MPEP Section 609 it is requested that each document cited [including any mentioned in Applicant's specification which is not repeated on the attached {or prior} PTO-1449 form(s) or equivalent(s) thereof] be given thorough consideration and be cited of record in the prosecution history of the present application by initialing on the PTO-1449 form or its equivalent, so that it will appear on the face of the patent issuing on the present application, even if the Examiner does not consider it sufficiently pertinent to use in a rejection, or otherwise does not believe that the guidelines for citation have been fully complied with.

The present Information Disclosure Statement is being submitted in compliance with 37 C.F.R. §1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 C.F.R. §1.104(a), and in the course of such search will review for relevance every document cited on the attached form.

Early and favorable consideration is earnestly solicited.

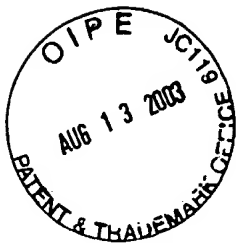
Respectfully submitted,  
Aviram SARIEL et al.

A handwritten signature in black ink, appearing to read 'Maier Fenster', is written over a horizontal line.

Maier FENSTER,  
Registration No. 41,016

August 7, 2003  
William H. Dippert, Esq.  
Reed Smith LLP  
599 Lexington Avenue, 29<sup>th</sup> Floor  
New York, NY 10022-7650

Tel: (212) 521-5400



PTO/SB92 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

### Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Mail Stop:  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

AUG 14 2003

Technology Center 2100

on August 11, 2003  
Date

*William H. Dippert*


William H. Dippert  
Registration No. 26,723

Reed Smith LLP  
599 Lexington Avenue  
29th Floor  
New York, New York 10022-7650  
Tel: 212-521-5400; Fax: 212-521-5450

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Applicant: Aviram SARIEL, et al.  
Serial No: 09/926,547  
Filing Date: March 5, 2002  
For: IMAGE COMPRESSION  
Enclosures: (1) Transmittal of Information Disclosure Statement (1 page); (2) First Supplemental Information Disclosure Statement (2 pages) w/IDS Citation (2 pages) & eighteen cited references (3) Acknowledgement Postcard.

Burden Hour Statement: This form is estimated to take 0.03 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary) 	ATTY DOCKET NO. <b>141/02497</b>	SERIAL NO. <b>09/926,547</b>
	APPLICANT(S) <b>Aviram SARIEL et al.</b>	
	FILING <b>March 5, 2002</b>	GROUP <b>2171</b>

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	Filing date if appropriate
	→	1	4,354,247	12 Oct '82	YAO, S.		

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
	→	2	JP 57-10123	19 Jan '82	JAPAN		YES	NO

### OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.)

	3	AKIBA, A. et al.; "Fundamental Study on a Microoptic Image Preprocessor Composed of Planar Microlens Array;" August 1991; Journal: Optics; Vol. 20; No. 8; pages 507-513					
	4	COHN, R. W.; "Link Analysis of a Deformable Mirror Device Based Optical Crossbar Switch; January 1992; Optical Engineering; Vol. 31; No. 1; pages 134-140					
	5	FARR, K. B. et al.; "Lens Design for a White-Light Cosine-Transform Achromat;" January 1, 1995; Applied Optics; Vol. 34; No. 1; pages 128-137					
	6	FEITELSON, D.; "Optical Computing;" Chapter "Optical Image and Signal Processing;" MIT Press 1988; pages 102-104 and 117-129					
	7	FUKUI, M.; "Optoelectronic Parallel Computing System with Optical Image Crossbar Switch;" November 10, 1993; Applied Optics; Vol. 32; No. 32; pages 6475-6481					
	8	GEORGE, N. et al.; "Cosinusoidal Transforms in White Light;" March 15, 1984; Applied Optics; Vol. 23; No. 6; pages 787-797					
	9	GOUTIN, P. et al.; "Some New Result in Hybrid Acousto-Optic Processing;" October 1992; Proceedings of the IEEE Ultrasonics Symposium; Vol. 1; pages 493-496					

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Equivalent to Form PTO-1449

Patent and Trademark Office\*U.S. DEPARTMENT OF COMMERCE

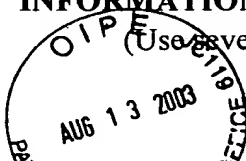
PAGE 1 OF 2

5

**RECEIVED**

AUG 14 2003

Technology Center 2100

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary) 	ATTY DOCKET NO. <b>141/02497</b>	SERIAL NO. <b>09/926,547</b>
	APPLICANT(S) <b>Aviram SARIEL et al.</b>	
	FILING <b>March 5, 2002</b>	GROUP <b>2171</b>

**OTHER DOCUMENTS** (Including Author, Title, Date Pertinent Pages, Etc.)

10	KIRK, A. G. et al.; "Experimental Implementation of an Optoelectronic Matrix-Matrix Multiplier which Incorporates Holographic Multiple Imaging;" December 1992; Optical Computing and Processing; Vol. 2; No. 4; pages 293-304; XP361747
11	KOC, U. et al.; "DCT-Based Motion Estimation;" July 1998; IEEE Transactions on Image Processing; Vol. 7; No. 7; pages 948-965
12	KOC, U.; "Low Complexity and High Throughput Fully DCT-Based Motion Compensated Video Coders;" presented in 1996 to RAY LIU, K. J. of the Institute for Systems Research; University of Maryland; Harvard University and Industry
13	MAROM, D. M. et al.; "Compact All-Optical Bypass-Exchange Switch;" January 10, 1996; Applied Optics; Vol. 35; No. 2; pages 248-253
14	NOMURA, K. et al.; "Hartley Transformation for Hybrid Pattern Matching;" October 10, 1990; Applied Optics; Vol. 29; No. 29; pages 4345-4350
15	RAO, K. R. et al.; "Decimation-in-Time (DIT) and Decimation-in-Frequency (DIF) Algorithms;" 1990; DCT-Algorithms, Advantages Applications; Chapter 4.4; Academic Press Inc.; pages 56-61
16	STONE, T. W. et al.; "Optical Array Generation and Interconnection Using Birefringent Slabs;" January 10, 1994; Applied Optics; Vol. 33; No. 2; pages 182-191
17	YATAGAI, T.; "Optical Computing in Japan;" October 1998; Future Generation Computer Systems; Vol. 4; No. 3; pages 177-187; XP000111373
18	"Performance of 4 x 4 Optical Crossbar Switch Utilizing Acousto-Optic Deflector;" February 16, 1989; Electronics Letters; Vol. 25; No. 4; pages 252-253

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Equivalent to Form PTO-1449

Patent and Trademark Office\*U.S. DEPARTMENT OF COMMERCE

PAGE 2 OF 2

**RECEIVED**  
 AUG 14 2003  
 Technology Center 2100